

ABSTRACT OF THE DISCLOSURE

The present invention is a method for performing multi-hop peer-to-peer telecommunications on a wireless network, the topology of which changes moment by moment and which includes a plurality of radio terminals. The present invention makes possible correct routing control even on a network with severe topology changes.

The present invention comprises the following steps:

each radio terminal exchanges the link state with radio terminals capable of direct communication (this link state includes only information on radio terminals within a predetermined number of hops), and constructs a routing table;

a packet is prepared including the routing stack for storing intermediate routing information whenever the packet passes through the terminals;

the sender terminal designates a destination terminal and broadcasts the abovementioned packet;

the radio terminals on the route, which receive the packet, write the intermediate routing information to the routing stack while transferring the packet to all radio terminals based on the routing table;

the destination terminal which receives said packet returns said packet to said sender terminal through the route followed by said packet based on information in said routing stack; and

said sender terminal which receives said packet unicasts a message to said destination terminal through the radio terminals on said route based on information in said routing stack included in said packet.